

## Timing Modes

On-Delay, Off-Delay, Interval and Accumulating On-Delay.

## Timing Specifications

Timing Ranges: 6 to 180 cycles; 0.1 to 3 / 0.5 to 15 / 1 to 30 / 2 to 60 / 4 to 120 / 6 to 180 / 10 to 300 sec.; 0.33 to 10 / 0.5 to 15 / 1 to 30 min .; 1 to $6 / 2$ to 48 hr . (All are $+5 \%,-0 \%$ of maximum values).
Timing Adjustment: Knob or fixed time (intemal fixed resistor) - all models; customer supplied external potentiometer or resistor - On-Delay and Interval models only.

Accuracy: Repeat Accuracy: $\pm .5 \% \pm 0.004 \mathrm{sec}$.. Overall Accuracy: $\pm 2 \%$ throughout operating temperature and voltage ranges.
Reset Time: 30 ms . min. (between deenergization and reenergization without affecting accuracy.)
Relay Operate Time: Off-Delay mode: 35 ms .; Interval mode: 20 ms .
Relay Release Time: On-Delay and Accumulating On-Delay modes: 20 ms.

## Contact Data @ $\mathbf{2 5}^{\circ} \mathrm{C}$

Arrangements: 2 Form C (DPDT).
Rating: 10A @ 28VDC or 120VAC, resistive; 1/3 HP @ 120/240VAC; 345VA. Same polarity.
Expected Mechanical Life: 10 million operations.
Expected Electrical Life: 500,000 operations, min., at rated resistive load.

## Initial Dielectric Strength

Between Terminals and Case: $1,000 \mathrm{VAC}$ plus twice the nominal voltage for one minute.

## Outline Dimensions



## Wiring Diagrams (Bottom Views)



## STA series

## Specification Grade Discrete Plug-in Time Delay Relay With QC Terminals

- On-Delay, Off-Delay, Interval and Accumulating On-Delay timing modes
- 13 timing ranges from 0.1 sec . to 48 hr .
- 10A DPDT output contacts
- Knob, fixed or external timing adjustment.
- QC plug-in terminals save space, two LEDs show status


## © File E60363

## (81 File LR51332 C $\epsilon$

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

## Input Data @ $\mathbf{2 5}^{\circ} \mathrm{C}$

Voltage: See Ordering Information section for details. Power Requirement: 3W, max.
Transient Protection: Non-repetitive transients of the following magnitudes will not cause spurious operation of affect function and accuracy.

| Operating Voltage | $<0.1 \mathbf{~ m s}$ | $<1 \mathbf{~ m s}$ |
| :---: | :---: | :---: |
| All except 12 \& 24 | $3,000 \mathrm{~V}$ | 2,500 |
| $12 \& 24$ | Consult Factory |  |

## Environmental Data

Temperature Range: Storage: $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$.
Operating: $-30^{\circ} \mathrm{C}$ to $+65^{\circ} \mathrm{C}$.

## Mechanical Data

Mounting/Termination: Quick connect terminals fit either 27E121 or 27E893 (snap-on) socket (order separately).
Status Indication: Power On LED and Output Contacts LED (optional).
Weight: 4.2 oz . (119g) approximately.
Ordering Information (All "X's" must be included to complete part number)


| Operating Voltage $(+10 \%,-15 \%)$ | Timing Adjustment $X A=$ Knob Adjust |
| :---: | :---: |
| $\mathrm{A}=12 \mathrm{VAC}, 50 / 60$ | XB = External |
| Hz. / 120VDC | Potentiometer or |
| $\mathrm{E}=24 \mathrm{VAC}, 50 / 60$ | resistor (Operating |
| Hz. / 24VDC | modes 1 and 3 |
| $\mathrm{F}=48 \mathrm{VAC}, 50 / 60$ | only). |
| Hz. / 48VDC | XF =Fixed Times - |
| $\mathrm{Q}=12 \mathrm{VDC}$ | Specify time delay |
|  | in seconds per the |
|  | following examples: |
|  | XF9.000 $=9 \mathrm{sec}$. |
|  | XF99.00 $=99 \mathrm{sec}$. |
|  | $X F 999.0=9999 \mathrm{sec}$. |
|  | $X F 1000=1000 \mathrm{sec}$. |

## Authorized distributors are likely to stock the following:

None at present.

